muscle finer - (stiffness!) - capillaries not contractibe allow protein blood into muscle oraches - inster replaces fluid supply of blood. heart able to send blood to muscles - not dependent on muscle work. Mrshing muscles - contains troy active hyperemia. - missels of misceral organs contract Constrolled by orten of names. - Most is sent to all parts of the holy) on mercise. Kinerso of blood movement. - Word your to hart used. - bruning, Morts pategire. -1) direction of muscle work + degree of inistim required. 2) entent of the state of training.

3) condition + development of body.

- pringing in the blood paralyzed train centres of muscle activity. - Intigue of metro centres. - occurs mildenly. - decress of blood flow + latigue products.
The third buy change of most of Perfeberal (bost) fotigie. can be removed !

Datiguet muscle Imered. = stronger Most & mill need or continenty - becomes clastic - loss strength. - pristly paralysed & ceases mork. of muscle activity. - fast muscle most lines no fatigue. Static. - belince between meight o muscle strength. lynamic - quick monements - nobalance. Wish - hard wish of muscles 1) if mosh distributed to many large muscles (1) " is done in Hythmic series A contraction or relanation. - messared by permer to lift , biolog. - muter Course Asteguir. - diminated by shin, kidning, intestines - Junte much & trapid. - rise in body temp. + spetite. Stringth increases - short duration. - limited muscle work. - one or ting muscles man Speed increises + indusance - unsh is stinder shorthwise contractions + gruter output. Speed - tires heart + lunge. Stragth - local patigin of muscle

muscles recomer replace und materials. - become stronger thous thicker.

- nem fibres formed.

- increased blood supply ournihement. "activity, - hypertrophy, 1) show string action give homes (shot) 1) preprint use -indurance & strength Absolute muscle strength.

- muscle stretched try a too henry ent.

- spiritibrium between mt. o muscle. - messed by dynamometer. Thick muscles lose elasticity or length. Distini of theren. - held high by muscles in enteretion - high pressure in lungs, deminishes disticity of ling time. their long muscles with quich reaction.
- morements must be timed with muscle action. - training lessens fatigue. - muscles must be trained for endurance + stringth. temmyn musele. - trained muscle - better metabolism - milds his mistes. 37V

Muts francis 1) muscles trained of mariety of mork. indurance of sheed. 2) mbility of body.
3) trunk, abdominal + back muscles built up. Chapter 6. naming the heroms System Park musele mount requires. 4) conduction of this stimulus through emueting, norme to the muscle. homes motion und -1) - increises of attention + concentration - indurance increises - semi-automatic 7) - mircises of stringth & still . (local) Jurne - sensori - motor centres in corter of cobetum. more all-mote de - nome plate in muscle. Auto Whees - brain to muscle. Sinson : - muscle to Araine. i) cross connections between motor + sunsoly news in brain of spirist and. Rellines produced 11 Cr- rhinstoni. - ability to voluntarily select & harmonshy, morth together, all messeles presention of estani mount.

historitanj motioni - activi of Marsing, muscles o Lisustanj momenent of arm. Static action - contraction of all muscles. 1) main motor contraction concentrac 1) Inhibitary (directing) - eccentrice.
3) Diving motioni - statici.
- Nalence & energy output C.N.S. Thurst rigulate time + strength of stimuli In each muscle. Into centres in brain + S. C. inshe moment uni - automatic. Will helps by pecturing, monument, hem movement - with C. N-S. lacks. moth membry impression. - uses too many muscles of too much energy. nome paths trained - by practise of body. mine between reception of stimuli + inecution of movement. Only some fibres of muscle stimulated. Complen - longer reaction time. Essies by denonstration. mother or- ord. - Prisince of mind! -1) Quick reaction to response. rumms tinsim. - suntime tension of norme of muscles. - prolonged conc. Thing nervous system.

- can be travel whole body. - hust has men automatic numes. - will has no control. - respiratory movements - by will - sheletel muscles - seme - automatic - ptypic found in motor nimes. Jeme automatic movements. - indurance - melling, summing etc. - merans moth is minimum. - mill climinated + never energy. Will activity feed & indurance & unrythmicelly. nime lout -- becomes sutomatic - mythom the reduces Jatequie.
- antomatei enercises reduce mill pomer automatic trucity; inhibning them continuous contraction of relaxation "rest tracity" - caused by ruften issitation. - stight tension - quick reaction - contraction smooth issitation - got by suppling enercise. - respires hig mussle activity.
- automatic
- hippinels in shifting granity.

State of mind --increase heart rate. - encite nimes + muscles. - mill pomer should denelle. - mircome physical disinclination - defry langer. - myyruss susatinis - denslope character Chapters. Jungs + Respiration. Combutini - hat & energy.

- activi of 02 - hut & verste

- 02 - coh - Co2 + H20. - Coz - My shin + lungs. Christian - heat for working muscles.

Respiration - june My CO2 from Hood.

take on O2 in lungs. Inspired ist - 79 % N. 21 % 02. Enfired air 4220 CO2 820 Mood - incressed during, activity about buther - '2 l. air walk bruth. mouses during activities.

1) trusthing more rapid.

" at trusts respiratory movements rest. antonstic centre-medulla oblongsta.
- contrelled by summes system.
- mital centre. - stimulated by coz in blood +
lech for.
376 - controlled by nazi nomes.

Ochillaries dilate in muscle + lungs. - blood flows faster. Respiratory air - anot inholed & inholed autinty. activity. Infelemental air - " " mhaled. Vital calescity - > times unul amt inheld - incressed with training, - 8 % blood in lungs uch respiration. Jungs dealfuck by merrise. - progrester inestion. - risistance to disesse. - (if not T. D. pleasing.) Endurance - rush. increased pla long, time Speed - increased suddenly to capacity Energise - Stringthens nech, shoulder. chest muscles + accessmy respirating in. - Johnson depends on nimons system.

Enericase of genderal strength-lung Talique of miscles.

Heart + activities. Ochepter 8. Bust - automatic . - incressed in worth during energiese. - more increise - more O'z medel. - Or demand determines histoctivity. - in rest - half to or in blood used. - heart note as blood requires mre Oz. - Cor acts as homme magic nume - gres to C. N.S aninis - heart-mound action to supply 02. Herry as con und, hurt buts faster.

1) morrows no. of contractions 1) John mours for noture Bust - 1) well trained muscles. 1) fotigue cannot news - Alord supply. 3) fetigie mided - sotion controlled . through norme centres. accessory Jemes 1) Working muscle receives blood. - mid on contraction - helps blood supply by pressing on neins. 4) Entensión 4 joints promotes circulation - Menion - prissure on neins. (Densal) 3) Resturation - suction in chest explands aurieles - which become full of blood. 379



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